Unit: mm

TOSHIBA Diode Silicon Epitaxial Planar Type

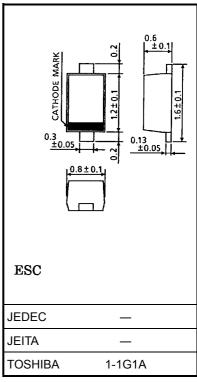
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TCXO/VCO

- High capacitance ratio: $C_1 \text{ V}/C_4 \text{ V} = 4.3 \text{ (typ.)}$ • Low series resistance: $r_s = 0.4 \Omega \text{ (typ.)}$
- Useful for small size tuner.

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V_{R}	10	V
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55~125	°C



Weight: 0.0014 g (typ.)

Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Reverse voltage	V_{R}	$I_R = 1 \mu A$	10	_	_	V
Reverse current	I _R	V _R = 10 V	_	_	3	nA
Capacitance	C _{1 V}	V _R = 1 V, f = 1 MHz	26.5	_	29.5	pF
Capacitance	C _{4 V}	V _R = 4 V, f = 1 MHz	6.0	_	7.1	pF
Capacitance ratio	C _{1 V} /C _{4 V}	_	4.0	4.3	_	_
Series resistance	r _s	V _R = 4 V, f = 100 MHz	_	0.4	0.8	Ω

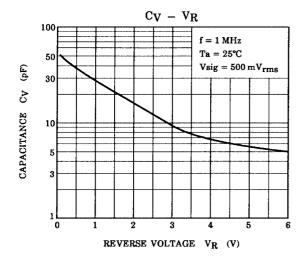
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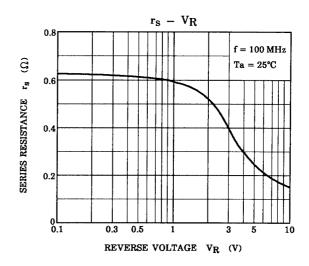
Note: Signal level when capacitance is measured: Vsig = 500 mVrms

Marking



2003-03-24





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